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APPLICATION NO	HLING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09.890,307	10 30 2001	Hongbing Gan	CU-2604 RJS	8929
	530 03 24 2003			
Ladas & Parry			EXAMINER	
224 South Michigan Avenue Chicago, IL 60604			PETKOVSEK, DANIEL J	
			ART UNIT	PAPER NUMBER
			2874	
			DATE MAILED: 03-24-2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Application No.	Applicant(s)	
•		09/890,307	GAN ET AL.	/
	Office Action Summary	Examiner	Art Unit	-
		Daniel J Petkovsek	2874	
Period fo	The MAILING DATE of this communic or Reply	ation appears on the cover sheet wit	th the correspondence address	;
A SH THE - Exte after - If the - If NO - Failu - Any I	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commuliperiod for reply specified above is less than thirty (30) piperiod for reply is specified above, the maximum stature to reply within the set or extended period for reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1 704(b)	ATION. 37 CFR 1 136(a) In no event, however, may a replication days, a reply within the statutory minimum of thirty story period will apply and will expire SIX (6) MON till, by statute, cause the application to become AB.	ply be timely filed (30) days will be considered timely THS from the mailing date of this communications ANDONED (35 U S C § 133)	cation
1)	Responsive to communication(s) file	d on		
2a)		b) This action is non-final.		
3) Dispositi	Since this application is in condition to closed in accordance with the practicion of Claims	or allowance except for formal mati	ers, prosecution as to the med 0. 11, 453 O.G. 213.	rits is
4)[]	Claim(s) 1-15 is/are pending in the ap	oplication.		
	4a) Of the above claim(s) is/are	withdrawn from consideration.		
_	Claim(s) is/are allowed.			
6)⊡	Claim(s) <u>1, 5-8, 11, and 13</u> is/are rejective.	cted.		
	Claim(s) <u>2-4, 9, 10, 12, and 14-15</u> is/a			
	Claim(s) are subject to restriction	•		
	on Papers	·		
9)[•	The specification is objected to by the	Examiner.		
10)[The drawing(s) filed on <u>30 October 200</u>	<u>01</u> is/are: a)⊠ accepted or b)⊡ objec	ted to by the Examiner.	
	Applicant may not request that any object	ction to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
11)	The proposed drawing correction filed	on is: a) approved b) di	sapproved by the Examiner.	
	If approved, corrected drawings are requ	ired in reply to this Office action.		
12)	Γhe oath or declaration is objected to b	y the Examiner.		
Priority u	nder 35 U.S.C. §§ 119 and 120			
13)[•	Acknowledgment is made of a claim in	or foreign priority under 35 U.S.C. §	119(a)-(d) or (f).	
a)[☑ All b) ☐ Some * c) ☐ None of:			
	1. Certified copies of the priority do	ocuments have been received.		
	2. Certified copies of the priority do	ocuments have been received in Ap	plication No	
* S		the priority documents have been rional Bureau (PCT Rule 17.2(a)). for a list of the certified copies not re	_	
14) 🗌 A	cknowledgment is made of a claim for	domestic priority under 35 U.S.C. §	119(e) (to a provisional applie	cation).
	The translation of the foreign languacknowledgment is made of a claim for	• • • • • • • • • • • • • • • • • • • •		
Attachment	(s)			
2) 🔲 Notici	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTC nation Disclosure Statement(s) (PTO-1449) Pap	D-948) 5) Notice of In	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152) Bulling Heeky	_
TO-326 (Rev		Office Action Summary	Brian Healy Part of Paper	No 7

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DETAILED ACTION

This application is a 371 of PCT/AU99/00056 filed on January 28, 1999.

Information Disclosure Statement

1. The prior art documents submitted by Applicant in the Information Disclosure Statements filed on July 27, 2001, have been considered and made of record (note attached copy of forms PTO-1449).

Specification

- 2. This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.
- 3. The disclosure is objected to because of the following informalities: on page 5, line 17, the "isolator in placed", should be the "isolator in place". Please check specification for any other minor errors.

Appropriate correction is required.

Claim Objections

4. Claim 6 is objected to because of the following informalities: "occurs substantially adjacent *is* interconnection", should read something like, "occurs substantially adjacent *to the* interconnection". Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1, 5-8, 11, and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Brennan U.S.P. No. 4,922,096.

Brennan U.S.P. No. 4.922.096 teaches (Figs. 2 and 3, column 5 line 42 through column 6 line 63) an optical fiber lasing system interconnected with a fiber waveguide in which the feedback effects from Rayleigh backscattering are reduced by subjecting portions of the optical waveguide to a low frequency piezoelectric mechanical vibration member (also see column 1 line 50 through column 2 line 5). Regarding claim 5, the waveguide is an optical fiber.

Regarding claims 6 and 13, the piezoelectric vibration occurs substantially adjacent to the laser source. Regarding claim 7, an optical receiver is shown to detect the signal from the waveguide.

Regarding claim 8, the piezoelectric vibrating element inherently oscillates while actuated.

Regarding claim 11, the piezoelectric vibrating element is in contact with the waveguide.

Allowable Subject Matter

7. Claims 2-4, 9, 10, 12, and 14-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The relevant prior art does not teach or reasonably suggest that the oscillation of the low frequency mechanical vibration is continuous, is in the range of 300 Hz to 40KHz, the mechanical modulator emits an audio signal, or that the optical fiber has an offset core.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's 8. disclosure, with respect to the state of the art of vibrations to lessen Rayleigh effects:

PTO-892 form references A, and C-E.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J Petkovsek whose telephone number is (703) 305-6919. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (703) 308-4819. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 872-9321.

Daniel Petkovsek March 18, 2003

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